

## CLAIMS LISTING

- 1.(original) A projectile comprising a ballast encased in a binder wherein said binder comprises a resin comprising linear chains of rigid polyamide segments interspaced with flexible poly ether segments and said projectile has a minimum specific gravity of 5.
- 2.(original) The projectile of claim 1 comprising about 6 to about 66%, by weight, said ballast and about 34-94%, by weight, said binder.
- 3.(original) The projectile of claim 2 comprising 45-49%, by weight, said ballast and 51-55%, by weight, said binder.
- 4.(original) The projectile of claim 1 wherein said binder further comprises a second resin.
- 5.(original) The projectile of claim 4 wherein said binder comprises about 10 to about 30%, by weight, said a resin comprising linear chains of rigid polyamide segments interspaced with flexible poly ether segments and about 70 to about 90%, by weight, said second resin.

6.(original) The projectile of claim 4 wherein said second resin is selected from a group consisting of nylon and polybutylene terephthalate.

7.(original) The projectile of claim 1 wherein said ballast comprises at least one member selected from a group consisting of tungsten, tungsten carbide, molybdenum, tantalum, ferro-tungsten, copper, bismuth, iron, steel, brass, aluminium bronze, beryllium copper, tin, aluminium, titanium, zinc, nickel silver alloy, cupronickel and nickel.

8.(original) The projectile of claim 7 wherein said ballast comprises at least one member selected from a group consisting of tungsten, tungsten carbide, tantalum, molybdenum and ferro-tungsten.

9.(currently amended) A projectile comprising a ballast encased in a binder wherein said binder comprises a resin comprising linear chains of rigid polyamide segments interspaced with flexible poly ether segments and said projectile has a minimum specific gravity of 5 ~~The projectile of claim 8~~ wherein said ballast consist essentially of tungsten.

- 10.(original) The projectile of claim 1 wherein said projectile has a minimum specific gravity of 10.
- 11.(original) The projectile of claim 1 wherein said binder further comprises a fiber.
- 12.(original) The projectile of claim 1 wherein said binder further comprises a lubricant.
- 13.(original) The frangible projectile of claim 1 further comprising a plasticizer.
- 14.(original) The frangible projectile of claim 13 wherein said plasticizer is a sulfonamide.
- 15.(original) The frangible projectile of claim 14 wherein said plasticizer is an aromatic sulfonamide.
- 16.(original) The frangible projectile of claim 15 wherein said plasticizer is n-butylbenzene sulfonamide.
- 17.(original) A frangible projectile comprising:  
a binder comprising about 10-30%, by weight, a resin comprising linear chains of rigid polyamide segments interspaced with flexible poly ether segments;  
a ballast comprising tungsten.
- 18.(original) The frangible projectile of claim 17 further comprising a plasticizer.
- 19.(original) The frangible projectile of claim 18 wherein said plasticizer is a sulfonamide.

20.(original) The frangible projectile of claim 19 wherein said plasticizer is an aromatic sulfonamide.

21.(original) The frangible projectile of claim 20 wherein said plasticizer is n-butylbenzene sulfonamide.

22.(original) A frangible projectile comprising:

34-94%, by weight, binder wherein said binder comprises a resin comprising linear chains of rigid polyamide segments interspaced with flexible poly ether segments; and

6-66%, by weight, ballast wherein said ballast comprises at least one member selected from a group consisting of tungsten, tungsten carbide, molybdenum, tantalum, ferro-tungsten, copper, bismuth, iron, steel, brass, aluminium bronze, beryllium copper, tin, aluminium, titanium, zinc, nickel silver alloy, cupronickel and nickel; and

wherein said projectile has a specific gravity of about 5 to about 14.

23.(original) The frangible projectile of claim 22 wherein said projectile has a specific gravity of at least about 10.

24.(original) The frangible projectile of claim 23 wherein said projectile has a specific gravity of about 11 to about 11.5.

25.(currently amended) A frangible projectile comprising:

34-94%, by weight, binder wherein said binder comprises a resin comprising linear chains of rigid polyamide segments interspaced with flexible poly ether segments; and  
6-66%, by weight, ballast ~~The frangible projectile of claim 22~~ wherein said ballast consist essentially of tungsten.

26.(original) The frangible projectile of claim 22 further comprising a second resin.

27.(original) The frangible projectile of claim 26 wherein said second resin is selected from a group consisting of nylon and polybutylene terephthalate.

28.(original) The frangible projectile of claim 26 wherein said second resin is nylon selected from a group consisting of nylon 6, nylon 6/6, nylon 11 and nylon 12.

29.(original) The frangible projectile of claim 22 wherein said binder further comprises a fiber.

30.(original) The frangible projectile of claim 29 wherein said fiber is an aramid.

31.(original) The frangible projectile of claim 22 wherein said binder further comprises a lubricant.

32.(original) The frangible projectile of claim 31 wherein said lubricant is at least one material chosen from a group consisting of molybdenum disulfide, silicone, polytetrafluoroethylene and mineral oil.

33.(new) A projectile comprising a ballast encased in a binder wherein said binder comprises a resin comprising linear chains of rigid polyamide segments interspaced with flexible poly ether segments and said projectile has a minimum specific gravity of 5 wherein said ballast consist of tungsten carbide, molybdenum, tantalum, ferro-tungsten, copper, bismuth, iron, steel, brass, aluminium bronze, beryllium copper, tin, aluminium, titanium, zinc, nickel silver alloy, cupronickel and nickel.